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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/561,437	08/30/2006	Cedric Calvez	Q92127	6383	
23373 7590 12/23/2008 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER		
			KRUER, KEVIN R		
SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER		
			1794		
			MAIL DATE	DELIVERY MODE	
			12/23/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/561,437 CALVEZ ET AL.

Office Action Summary		* * * * * * * * * * * * * * * * * * * *					
omeericaen camma,	Examiner	Art Unit					
The MAILING DATE of this communication app	KEVIN R. KRUER	1794	deluses				
Period for Reply	ears on the cover sheet with the c	orrespondence ad	iaress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.12 or 1.1	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
2a) This action is FINAL. 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	e merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
·	•						
5) Claim(s) is/are allowed.	, , , , , , , , , , , , , , , , , , ,						
6)⊠ Claim(s) <u>25-45</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement						
and capped to receive and and capped to receive and control of the capped to receive and							
Application Papers							
9) The specification is objected to by the Examine	r.						
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b)⊡ objected to by the I	Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓO-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a) All b) Some * c)⊠ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
 Certified copies of the priority documents have been received. 							
Certified copies of the priority documents	Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior	rity documents have been receive	ed in this National	Stage				
application from the International Bureau							
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da						

Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
3) X Information Disclosure Statement(s) (PTO/SE/08)	5) Notice of Informal Patent Application	
Paper No(s)/Mail Date 12/20/05.	6) Other:	

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DETAILED ACTION

Priority

 Acknowledgment is made of applicant's claim for foreign priority based on an application filed in 6/23/03 on the European Patent Office. It is noted, however, that applicant has not filed a certified copy of the EP application as required by 35 U.S.C. 119(b).

Information Disclosure Statement

The IDS filed 12/20/2005 has been fully considered. An Initialed copy of said IDS is enclosed herein.

Specification

The abstract of the disclosure is objected to because it is not on a separate sheet.
 Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 25-38 and 40-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spears et al (US 6,455,148) in view of Botros (US 2004/0116602).

Spears teaches a laminate comprising a polyethylene core and 2 metallic skin layers adhered thereto (Figure 1 and col 3, lines 20+). The laminate is made by applying the adhesive to the metallic skin layers and then laminating the layers to the

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polyethylene core (col 5, lines 13+), heated and then pressed to make the laminate. The metal may comprise aluminum (col 5, line 22). With regards to claim 48, the limitation "automotive body part" is herein understood to be a preamble limitation that does not provide additional structure to the claim and does not patentably distinguish the clamed invention from the laminate taught in Spears in that the laminate of Spears is capable of being used as an automobile panel.

Spears teaches the adhesive may comprise a graft modified polyethylene composition (col 6, lines 43+) but does not teach the claimed adhesive composition. However, Botros teaches a composition comprising a blend of a polyolefin base resin, an acid or acid derivative modified polyolefin and a silane modified polyolefin (Abstract). Herein the silane modified polyolefin is understood to read on the claimed silane compound and the modified polyolefin is understood to read on the grafted unsaturated carboxylic acid. The carboxylic acid may be a C1-C6 carboxylic group such as maleic acid or derivative thereof (herein understood to read on the claimed maleic acid anhydride of claim 32) (0025). The silane may be a vinylalkoxysilane or a trialkoxysilane (0029). The composition comprises 65-95.5wt% (0032) base resin comprising HDPE (0015) and an elastomer in relative amount of 15: to 1:1 (0016). Said ratio is understood to be sufficient specific to read on the elastomer percentages of claims 35 and 36.

With regards to claim 26, Spears teaches the laminate may be formed into a composite of various lengths, widths and shapes (col 5, lines 10+). Thus, it would have

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been obvious to use metallic sheets of different sizes in order to obtain a laminate with the desired shape, length, or width.

With regards to claims 28, 29, 37, and 38, Botros does not teach the grafted polyethylene should comprise at least 50% of the adhesive composition. However, the graft functionalities are taught to improve the adhesion of the composition to metallic substrates. Thus, it would have been obvious to the skilled artisan to graft polymerize the entire composition taught in order to improve the adhesion to metallic substrates. Furthermore, functionalizing the entire composition will result in functionalized styrene elastomers (0021), such as styrene maleic anhydride.

With regard to claim 41, Botros dos not explicitly teach the use of flame retardants but teaches the adhesive may comprise stabilizing additives (0034). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to add a flame retardant to the adhesive taught in Botros. The motivation for doing so would have been to improve the flame retardant properties of the composite laminate.

With regards to claims 42 and 43, the gel content is herein understood to be a latent property of the composition taught in Botros. Alternatively, it would have been obvious to the skilled artisan to optimize the crosslinking density of the composition taught in Botros to obtain a high gel content. The motivation for doing so would have been because Botros teaches the functional grafts increase the adhesive properties o the composition.

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 Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Spears et al (US 6,455,148) in view of Botros (US 2004/0116602), as applied to claims 25-36 and 40-48 above, and further in view of JP 56132709A (herein referred to as Showa).

Spears in view of Botros is relied upon as above but does not teach epoxy resin may be added to the composition. However, Showa teaches water treeing defects are minimized when crosslinked polyethylene is blended with 0.5-15wt% epoxy resin (abstract). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to add 0.5-15wt% epoxy to the crosslinked polyethylene taught in Botros in order to minimize water treeing.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN R. KRUER whose telephone number is (571)272-1510. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin R Kruer/ Primary Examiner, Art Unit 1794